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APPLICATION NO.	FILING DATE	FIRST NAMED INVENTOR	ATTORNEY DOCKET NO.	CONFIRMATION NO.
10/063,915	05/23/2002	Hiroshi Sakai	15574	4405
23389 7:	590 06/21/2005		EXAMINER	
SCULLY SCOTT MURPHY & PRESSER, PC			JOHNSON, JONATHAN J	
400 GARDEN SUITE 300	400 GARDEN CITY PLAZA SUITE 300 GARDEN CITY, NY 11530		ART UNIT	PAPER NUMBER
GARDEN CIT			1725	
			DATE MAILED: 06/21/200	5

Please find below and/or attached an Office communication concerning this application or proceeding.

		\mathbb{N}				
	Application No.	Applicant(s)				
	10/063,915	SAKAI ET AL.				
Office Action Summary	Examiner	Art Unit				
	Jonathan Johnson	1725				
The MAILING DATE of this communication appears on the cover sheet with the correspondence address Period for Reply						
A SHORTENED STATUTORY PERIOD FOR REPL' THE MAILING DATE OF THIS COMMUNICATION. - Extensions of time may be available under the provisions of 37 CFR 1.1: after SIX (6) MONTHS from the mailing date of this communication. - If the period for reply specified above is less than thirty (30) days, a reply If NO period for reply is specified above, the maximum statutory period of Failure to reply within the set or extended period for reply will, by statute Any reply received by the Office later than three months after the mailing earned patent term adjustment. See 37 CFR 1.704(b).	36(a). In no event, however, may a reply be ting within the statutory minimum of thirty (30) day will apply and will expire SIX (6) MONTHS from a cause the application to become ABANDONE	nely filed s will be considered timely. the mailing date of this communication. D (35 U.S.C. § 133).				
Status						
1) Responsive to communication(s) filed on 29 A	<u>pril 2005</u> .					
2a) This action is FINAL . 2b) This	action is non-final.	•				
	, 					
closed in accordance with the practice under Ex parte Quayle, 1935 C.D. 11, 453 O.G. 213.						
Disposition of Claims						
4)⊠ Claim(s) <u>1-6</u> is/are pending in the application.						
4a) Of the above claim(s) is/are withdrawn from consideration.						
5) Claim(s) is/are allowed.						
6)⊠ Claim(s) <u>1-6</u> is/are rejected.	<u></u>					
7) Claim(s) is/are objected to.						
8) Claim(s) are subject to restriction and/o	r election requirement.					
Application Papers						
9) The specification is objected to by the Examine	er.					
10) The drawing(s) filed on is/are: a) accepted or b) objected to by the Examiner.						
Applicant may not request that any objection to the drawing(s) be held in abeyance. See 37 CFR 1.85(a).						
Replacement drawing sheet(s) including the correction is required if the drawing(s) is objected to. See 37 CFR 1.121(d).						
11)☐ The oath or declaration is objected to by the Ex	caminer. Note the attached Office	Action or form PTO-152.				
Priority under 35 U.S.C. § 119	•	÷				
12)⊠ Acknowledgment is made of a claim for foreign a)⊠ All b)□ Some * c)□ None of:)-(d) or (f).				
1. Certified copies of the priority documents have been received.						
2. Certified copies of the priority documents have been received in Application No						
3. Copies of the certified copies of the priority documents have been received in this National Stage application from the International Bureau (PCT Rule 17.2(a)).						
* See the attached detailed Office action for a list		ad				
See the attached detailed Office action for a list	of the certified copies not receive	su.				
Attachment(s)						
1) Notice of References Cited (PTO-892) 4) Interview Summary (PTO-413)						
2) Notice of Draftsperson's Patent Drawing Review (PTO-948)	Paper No(s)/Mail D 5) Notice of Informal F	ate Patent Application (PTO-152)				
3) Information Disclosure Statement(s) (PTO-1449 or PTO/SB/08) Paper No(s)/Mail Date <u>4-29-05</u> .	6) Other:	•• •• •• ••				

Application/Control Number: 10/063,915

Art Unit: 1725

DETAILED ACTION

Claim Rejections - 35 USC § 103

The following is a quotation of 35 U.S.C. 103(a) which forms the basis for all obviousness rejections set forth in this Office action:

(a) A patent may not be obtained though the invention is not identically disclosed or described as set forth in section 102 of this title, if the differences between the subject matter sought to be patented and the prior art are such that the subject matter as a whole would have been obvious at the time the invention was made to a person having ordinary skill in the art to which said subject matter pertains. Patentability shall not be negatived by the manner in which the invention was made.

Claims 1-6 are rejected under 35 U.S.C. 103(a) as being unpatentable over Applicant's Admitted Prior Art (AAPA) in view of US 6,036,084 (Yagi). AAPA teaches a first process for mounting a mask having apertures corresponding to land portions of a printed circuit board, on said printed circuit board at a predetermined position thereof in a state where it is placed in position (specification, paragraphs 5-7); a second process for mounting a solder paste containing therein as a solder material a tin-zinc (Sn--Zn) system solder on said mask and for permitting said solder paste to make rolling from one end of said mask toward the opposite end thereof by means of a squeegee (specification, paragraph 12) wherein said squeegee urges said solder paste to make rolling, to thereby fill said solder paste into said apertures; and a third process for separating said mask away from said printed circuit board (figure 2c, item 250). Yagi teaches controlling the moisture content of the air using air to a predetermined value (col. 4, 11. 30-36). It would have been obvious to one of ordinary skill in the art at the time of the invention to modify the screen printing process of AAPA to utilize controlling the moisture content of the claimed range in order to limit the moisture absorption by the solder paste (see Yage col. 1, 11. 50-65). In addition, it would have been obvious to one of ordinary skill in the art at the time of the

Application/Control Number: 10/063,915

Art Unit: 1725

invention to choose the instantly claimed ranges through process optimization, since it has been held that there the general conditions of a claim are disclosed in the prior art, discovering the optimum or workable ranges involves only routine skill in the art. See <u>In re Boesch</u>, 205 USPQ 215 (CCPA 1980).

Conclusion

Any inquiry concerning this communication or earlier communications from the examiner should be directed to Jonathan Johnson whose telephone number is 571-272-1177. The examiner can normally be reached on M-Th 7:30 AM-5:30 PM.

If attempts to reach the examiner by telephone are unsuccessful, the examiner's supervisor, Tom Dunn can be reached on 571-272-1171. The fax phone number for the organization where this application or proceeding is assigned is 703-872-9306.

Information regarding the status of an application may be obtained from the Patent Application Information Retrieval (PAIR) system. Status information for published applications may be obtained from either Private PAIR or Public PAIR. Status information for unpublished applications is available through Private PAIR only. For more information about the PAIR system, see http://pair-direct.uspto.gov. Should you have questions on access to the Private PAIR system, contact the Electronic Business Center (EBC) at 866-217-9197 (toll-free).

Jonathan Johnson Primary Examiner Art Unit 1725